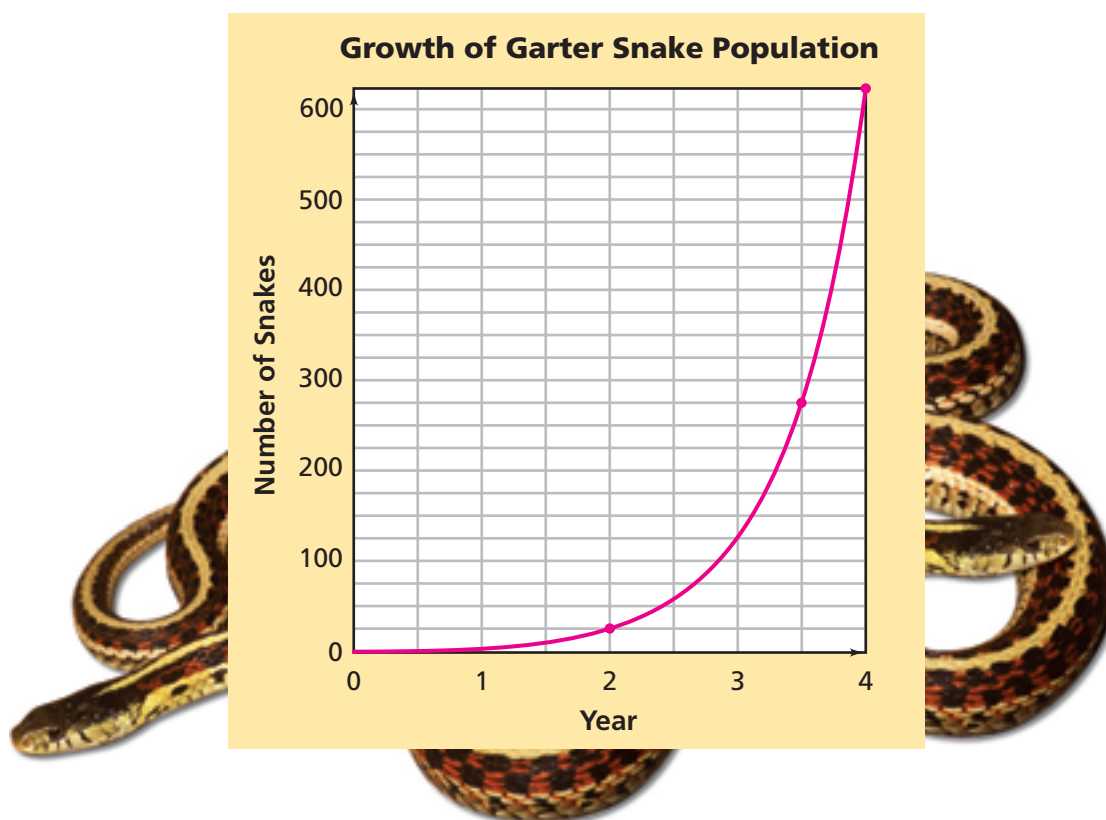


2.3 Studying Snake Populations

The graph shows the growth of a garter snake population after it was introduced to a new area. The population is growing exponentially.



Problem 2.3 Interpreting Exponential Graphs

- A. Explain how to find the growth factor for the population.
- B.
 1. Find the snake population for years 2, 3, and 4.
 2. Use the pattern in your answers from part (1) to estimate the population in year 1. Explain.
 3. Explain how you can find the y-intercept for the graph.
- C. Write an equation relating time t in years and population p . Explain what information the numbers in the equation represent.
- D. In what year is the population likely to reach 1,500?

ACE Homework starts on page 24.